PATENT PENDING

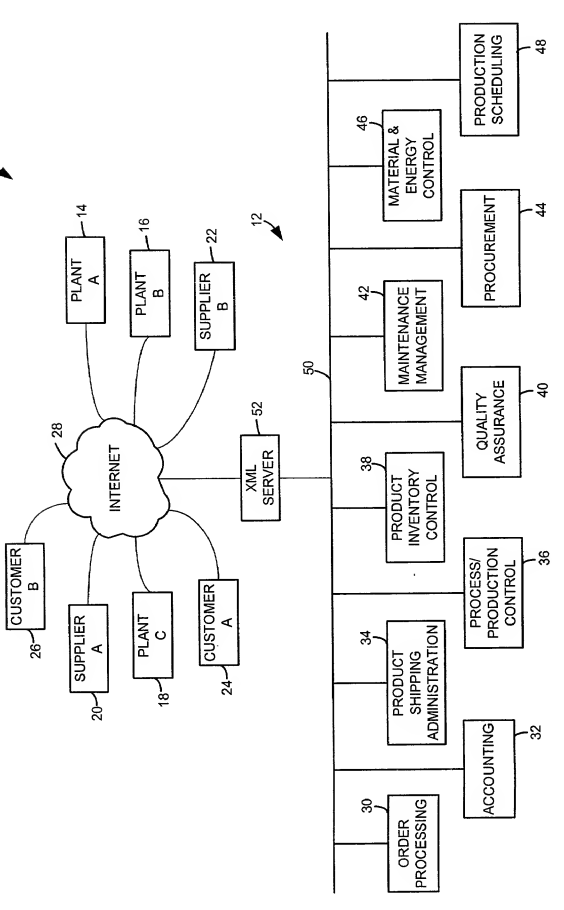

FIG. 1

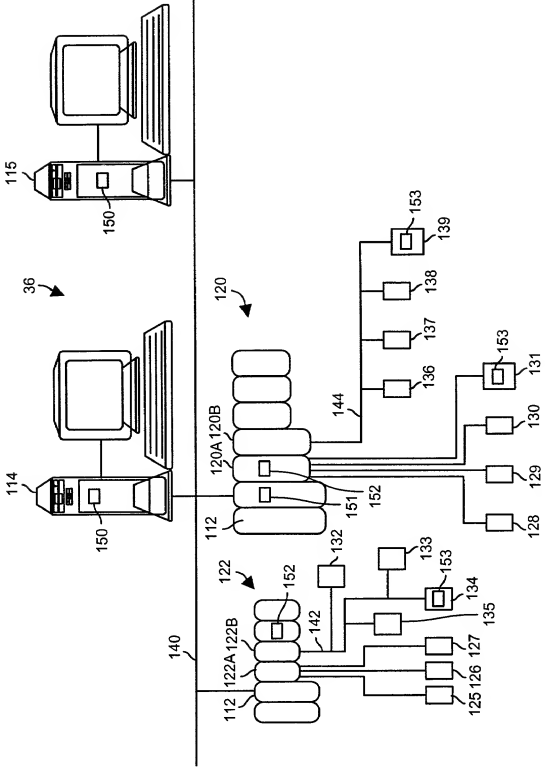
115
150
36
114
150
120
120A
120B
112
144
151
152
153
139
138
137
136
153
131
130
129
128
132
133
153
134
135
122
152
142
140
122A
122B
112
127
126
125

FIG. 2

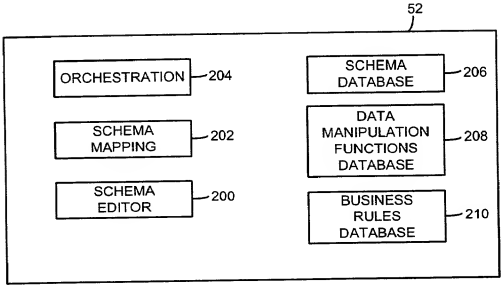

FIG. 3

```
<deviceAlert3051>
<date>09/29/00</date>
<time>02:11:15 PM </time>
<tag>FT-100</tag>
<alert>MAINTENANCE</alert>
<description>Sensor Plugged</description>
<priority> 4 </priority>
<action> Remove and repair </action>
<state> act/unack </state>
</deviceAlert3051>
```

XML

FIG. 4

PATENT: 10220660

Docket No.: 060053/37169
Title: Transactional Data Communications for Process Control Systems
Inventors: Schleiss et al.
Sheet 4 of 5 (fig. 5)

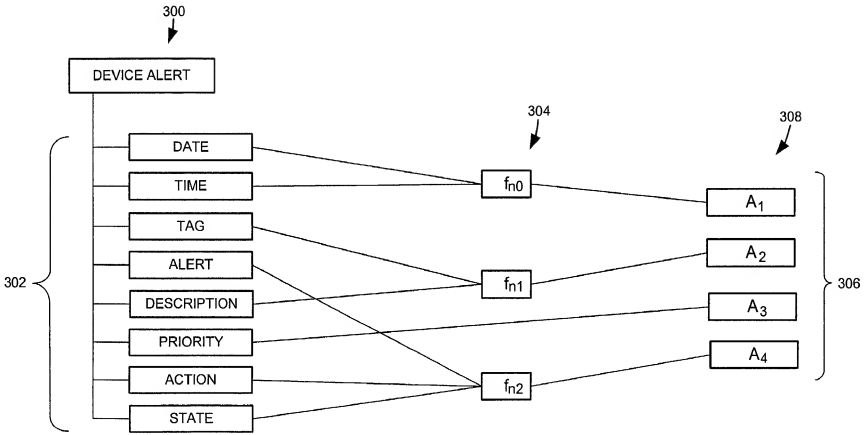

FIG. 5

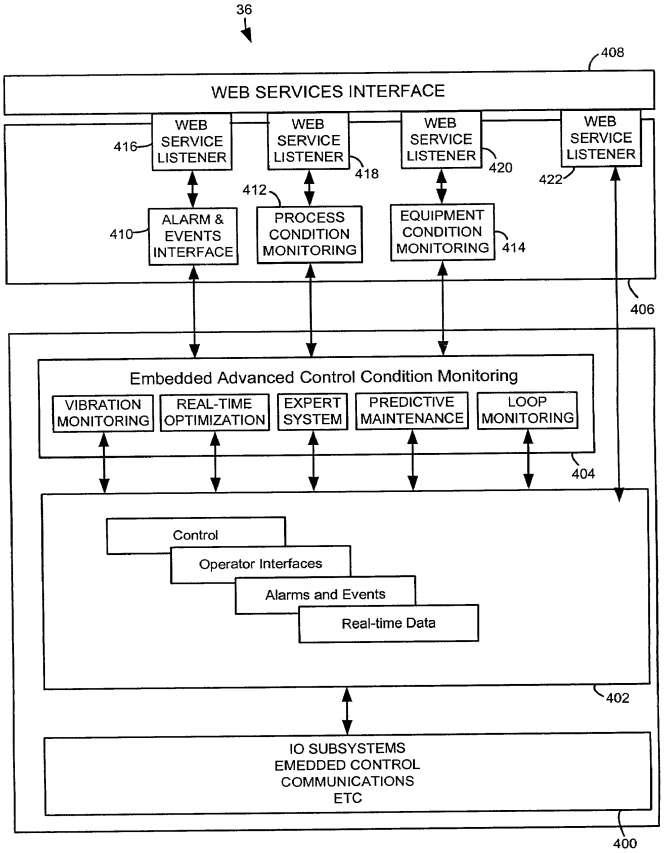
36
408
WEB SERVICES INTERFACE
WEB SERVICE LISTENER
416
WEB SERVICE LISTENER
418
WEB SERVICE LISTENER
420
WEB SERVICE LISTENER
422
412
ALARM & EVENTS INTERFACE
410
PROCESS CONDITION MONITORING
EQUIPMENT CONDITION MONITORING
414
406
Embedded Advanced Control Condition Monitoring
VIBRATION MONITORING
REAL-TIME OPTIMIZATION
EXPERT SYSTEM
PREDICTIVE MAINTENANCE
LOOP MONITORING
404
Control
Operator Interfaces
Alarms and Events
Real-time Data
402
IO SUBSYSTEMS
EMEDDED CONTROL
COMMUNICATIONS
ETC
400

FIG. 6